ASL

Australian Society for Limnology Inc.

NEWSLETTER

Conference Edition

Volume 46 # 3, September 2008

ABN 54 606 483 226 ISSN 1037-2512

AUSTRALIAN SOCIETY FOR LIMNOLOGY INC.

The Australian Society for Limnology Inc. (ASL) is an Australian-based scientific society whose focus is the study and management of inland waters. The ASL was established in 1961, and has a current membership of over 650 researchers, managers, engineers, teachers and tertiary level students from all states and territories. Members have a strong professional interest in inland aquatic issues, including the maintenance of biodiversity, the maintenance and/or restoration of water quality, and the wise use of aquatic resources. The Society also has a strong interest in fostering the scientific and intellectual development of tertiary students.

The Society includes members working in government agencies, tertiary institutions and many industries related to aquatic resources. Through their daily activities, members have contact with local communities and are in a sound position to interpret and advise on inland water issues. The Society has a substantial knowledge base, and has assumed a responsibility to ensure that this is available to those who manage inland waters.

Accordingly, the charter of the ASL is to further our understanding of Australia's inland waters and to promote their wise use and sustainable management. In this manner we will contribute to the continued existence of this valued resource and the maintenance and enhancement of the quality of life for all Australians. The ASL regularly produces a newsletter with notes on limnological activities, articles of interest, book reviews and announcements of upcoming events likely to be of interest to Members.

ASL Home Page - http://www.asl.org.au/

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EDITOR'S NOTE

Well again folks, I begin with an apology for the lateness of this issue ... this time because I decided to wait until we had some of the material arising from the conference ready to go to press.

The conference at Mandurah went well as Stuart will outline later in his President's report, and next year's edition is planned for Alice Springs. If you are a student look out for John Gooderham's announcement about a possible pre-conference event.

I would love to have some more submissions to work with, especially in the 'Reports from the Trenches' section ... tell us all what you're up to!! And despite that famous Aussie reputation for irreverent humour and salacious gossip, I see no such thing.

The deadline for submissions to the next issue is 15th December.

Ross Thompson

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PRESIDENT'S REPORT

I write this *en route* to the US after attending a successful 47th Conference in Mandurah. The conference theme "*Keeping aquatic ecosystems on Australia's water management agenda*" was very topical and there were many great talks and memorable welcome speeches from the State member for Mandurah (which concluded with a Monty Python song) and the Mandurah Mayor. I thank Jenny Davis, Tom Rose, Bea Sommer, Mark Lund and the rest of the conference team – as well as Claire Braund (The Regional Institute) – for making this happen.

There still is a considerable amount of activity and interest in water at the Federal and State level and there probably has never been a more important time to be a water scientist or freshwater ecologist. There are certainly great opportunities for future cohorts of postgraduate and postdoctoral scientists. It is ironic then that we still have difficulty filling postgraduate scholarship positions and that scientific societies like ours struggle to maintain membership. ASL will have to work harder to ensure that its annual meetings (and other activities) will continue to attract and retain members and, at the same time, provide a professional level of service to members.

The Society is now competing with a large array of conference offerings on water-related topics, including meetings of sibling societies (e.g. ASPAB, Fish Biology) and other national and international events (Stream Management Conferences, Riversymposium etc). I hope that ASL will explore opportunities for greater links with our sibling societies, at least with the view of holding joint meetings but also with the aim of providing a stronger science advocacy voice for Australia's inland waters – and especially, freshwater ecology.

We are also faced with the challenge of having to continue to rely on the tremendous efforts of a few volunteers to keep the Society's operations in order. This becomes much more noticeable when long-serving office-bearers (like Margaret Hart) retire. I would like to acknowledge the significant contributions that Sabine Schreiber, Richard Marchant and Ross Thompson continue to make to Society. The Executive is considering options for contracting a service provider to streamline membership applications and renewals, provide conference logistic support and maintain the website. More details about this will be made available shortly and I trust that the ASL members will give this their full support. In the meantime, most of you will be aware that there is a lot of information on the website that has past its use-by-date, including a range of 'policy papers'. Anyone willing to assist in updating some of this information should contact Darren or Sabine.

This is my final report as President and I wanted to take the opportunity to thank fellow members of the Executive for their support and contribution to the Society – especially Richard, Sabine and Margaret. I wish Darren Baldwin all the best as the incoming President and look forward to seeing you at the next meeting – in Alice Springs.

Stuart Bunn
October 2008

ANNOUNCEMENTS

MODIFICATIONS TO THE ASL MEDAL REGULATIONS

The ASL executive has changed two aspects of the current rules (revised in 1998 and published in ASL newsletter vol 36, number 2) for awarding medals. These concern the length of time a nomination is valid for and the requirement for the medal winner to publish their Hilary Jolly Memorial Lecture. The executive has decided that nominations should be valid for three years and that the requirement to publish the Hilary Jolly address should be abandoned.

Richard Marchant

THE 2009 ASL INTRA-CONTINENTAL LIMNOVENTURE (working title)

The 2009 ASL congress is going to be held in Alice Springs. A cynical observer might discount this as a predictable addition to the recent string of far flung congress locations in what seems to be a wishlist travel itinerary set by a bunch of well funded academics to the exclusion of our more fiscally challenged members - particularly students.....It doesn't have to be this way.

A bunch of ASL people have had a cool idea that breaks down like this:

1. Get a bus
2. Fill it with students and other deserving types (the buspeople)
3. Drive it to Alice Springs stopping off at important limnological sites along the way
4. Chat to clever people along the way
5. Get some form of funding and sponsorship for the whole thing so it costs about the equivalent of an ASL congress held in a major capital

Even before the 2008 congress had wound up there was the beginnings of a student organising committee.... but we are going to need help. To convert this from a daft idea to an actual factual road trip will involve lots of help from lots of people.....fortunately that's partly what ASL is all about...isn't it?

This is a call for expressions of interest. We need your input.

- Where should the bus go? - It will probably start somewhere on the east coast between Adelaide and Brisbane (yet to be decided)
- Can you recommend things to visit? (This bit is really important! - Lake Mungo or Eyre, The Snowy or Murray Rivers, a snazzy dam with an

interesting management regime, a saltlake, a wetland, a farm dam....a big one)

- Can you suggest places to put tents (up to fifty I guess...how big is a bus?) preferably near limnological features?
- Do you own a vineyard or brewery?
- Can you regale the buspeople with talks?
- Can you hook them up with a local CWA for morning tea
- Can they visit you research centre?
- Can they crash one of your field trips on the way?
- Are you practised at shiatsu massage and unworried by the thought of working on 30 people who have spent 2 days on a bus...?

or would you like to be on the bus? .....you should contact us too.

If you want to be involved in any way at all, we want to hear from you.

Send us an email at: flatworm@ozemail.com.au (temporary contact - 'til things are in full swing).

John Gooderham

PRELIMINARY ANNOUNCEMENT

REBIRTH OF TAXONOMIC WORKSHOP AT ALBURY-WODONGA

National Taxonomy Hub
building australian capacity

Aquatic Macroinvertebrates CERF Research Project

Date: February 10th – 11th 2009

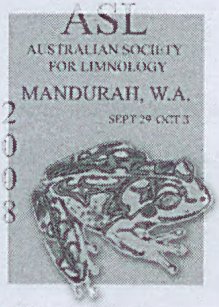
Where:La Trobe University, Albury-Wodonga Campus Wodonga

Topics:Larval Chironomidae,
Nymphs of Coloburiscidae and taxonomic updates
The Web Guide
Interactive key to Family for adult insects

Preliminary details and registration form available at
http://www.latrobe.edu.au/deme/aw/taxonomicworkshop.htm

CONFERENCE REPORTS

AUSTRALIAN LIMNOLOGICAL SOCIETY 47TH ANNUAL MEETING
Mandurah, Western Australia Sept 29th – Oct 3rd 2008



The 47th edition of ASL was held in a beautiful setting in Mandurah, Western Australia.

For the first time the conference began with a student workshop, which was attended by a small but enthusiastic group. **Bonnie Atkinson, Megan McGuire** and **Ross Thompson** provided an overview of different career pathways in limnology. On the Tuesday the conference proper began with a unique musical welcome from local MLA the hon. David Templeman, a local perspective from **Tom Rose** and a national context from **Matt Kendall.**

The remainder of the conference was characterised by the usual high quality of presentations from both students and old farts. Exemplifying the latter were the ASL medal address from **Stuart Bunn** and Early Career Excellence address from **Chris Walsh.** Student talks were excellent as usual, and the prize winners (see later in this edition) were all exceptional examples of good science communicated well.

On a social note **Clint McCullough** covered ASL in glory with a genuinely terrifying karaoke rendition of 'I'm too sexy for my shirt' at the local pub – and won himself a door prize. Many rehearsals in front of the mirror behind that one I'm sure Clint. On a more savoury note **Jayne Brim-Box** was awarded the Apple Prize for the best presentation as judged by the students.

Thanks to the conference committee of **Mark Lund, Jenny Davis, Thomas Rose, Bea Sommer, Tim Storer, Jane Chambers, Lien Sim, Rebecca McIntyre, Sabine Schreiber** and Claire Braund from the Regional Institute.

Ross Thompson

Below, The venue, Mandurah Performing Arts Centre (Photo: R.Thompson)

Annual General Meeting Minutes

Annual General Meeting of the Australian Society for Limnology, Wednesday 1 October 2008, Mandurah WA

(p=proposed; s=seconded)

1. Adoption of agenda: carried (p=B.Hart, s=M.Grace)

2. Acceptance of minutes of last AGM: carried (p=R.Marchant, s= A.Boulton)

3. Matters arising: none

4. President's report: There still is a considerable amount of activity and interest in water at the Federal and State level and there probably has never been a more important time to be a water scientist or freshwater ecologist. There are certainly great opportunities for future cohorts of postgraduate and postdoctoral scientists. It is ironic then that we still have difficulty filling postgraduate scholarship positions and that scientific societies like ours struggle to maintain membership. ASL will have to work harder to ensure that its annual meetings (and other activities) will continue to attract and retain members and, at the same time, provide a professional level of service to members.

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This is my final report as President and I wanted to take the opportunity to thank fellow members of the Executive for their support and contribution to the Society – especially Richard, Sabine, Margaret and Ross. I wish Darren

Baldwin all the best as the incoming President. (accepted, p = R.Marchant, s = M.Brock)

5. Secretary's report: one teleconference was held in April 2008 and the minutes published in the newsletter. The society's annual statement for Corporate Affairs Victoria will be submitted before the deadline (Nov 30, five months after the end of the financial year). (accepted, p = S.Bunn, s = J.Davis)

6. Treasurer's report: the current paid up membership of the ASL is 546. The financial statements are attached. The treasurer noted that the decrease in income for 2007-08 was due to the fact that the last congress was held jointly with the NZ Freshwater Sciences Society (NZFSS), who ran this meeting in Queenstown NZ. All income from conference receipts went to the NZFSS.

The treasurer recommended that an increase in fees occur because costs are currently running at $30 per member but income was only $27 per member. She proposed that fees increase from $55 to $75 for ordinary members and from $28 to $35 for students (s = R.Marchant). Members unanimously voted for this increase. It was suggested that a three year membership for students might be considered. This will be examined.

The treasurer also indicated that the society needs more professional help in organising conferences and in the running of its day to day administration. The treasurer indicated that two Melbourne based businesses that provide administrative services to non profit organisations were being examined to determine their suitability. (accepted, p = B.Hart, s = J.Hughes)

7. Honorarium for treasurer: R.Marchant proposed (s = S.Schreiber) that the last treasurer, M.Hart, should receive $1250 for her work over the first half of the 07-08 financial year. M.Hart proposed (s = T.Doeg) that the current treasurer should receive an equal amount for her work during the second half of the 07-08 financial year. Both motions were carried.

8. Auditor's report: this was read out by the treasurer (see attached letter) and was accepted (p = S,Schreiber, s = M.Hart). The treasurer noted that the auditors recommend a change to the constitution. This requires changing the first sentence in section 12 (Annual Reports) of the constitution. Currently this reads: "An annual report and financial statement shall be submitted to the Annual General Meeting and the financial statement shall be audited by a person appointed at the previous Annual General Meeting". The treasurer proposes (s = R.Marchant) that this be amended to: "An annual report and financial statement shall be submitted to the Annual General Meeting and the financial statement may be audited or reviewed by an appropriately qualified and independent accountant if the members so decide at the previous Annual general Meeting". A vote on this will occur at the AGM in 2009.

9. Election of auditors: the treasurer proposed (s = M.Hart) that Coster Galgut be elected for 2008-09.

10. Newsletter editor report: R.Thompson reported that he slightly refined the format of the newsletter since the last AGM. The current arrangement is that he compiles the newsletter and sends it out electronically. R.Marchant and S.Schreiber arrange for printing and posting of about 50 hard copies for those who do not wish to receive an electronic version and for libraries.

11. ASL Medal report: R.Marchant (as a member of the award committee including S.Bunn and J.Davis) announced that this year's medal had been awarded to **Dr Margaret Brock**. (The citation is below – ed.).

12. Early Career Award: F.Sheldon (as a member of a committee including A. Arthington, and C. Walsh) announced that **Dr Darren Ryder** had been awarded this honour . (The citation is below – ed.).

13. Bill Williams' Travel Award: R.Marchant reported that the travel scholarship had been awarded to **Evan Harrison** of the University of Canberra. The ASL has granted him $2000 to present his research at the 2009 NABS meeting in the US.

14. Student travel awards: seven students were each granted $500 to attend and present their work at this year's congress. They were: **A.Steward, S.Maxwell, B.Downey, S.Wickson, J.Williams, K.Lansdown** and **S.Imberger**.

15. 48th Congress: J.Davis advocated holding the next congress in Alice Springs. She outlined the advantages of this location and noted that the ASL had a new member (Jane Brimbox) who currently lives in Alice Springs and is willing to be involved in the organisation of this congress.

16. Future congresses: J.Roberts suggested Thredbo NSW in December. B.Kefford reported that the Aust. Society for Toxicology was keen to hold a joint conference with the ASL.

17. Election of the executive: the following were elected unopposed

President: **D.Baldwin** (p = S.Bunn, s = R.Marchant)
Vice President: **D.Ryder** (p = S.Schreiber, s= D.Baldwin)
Regional rep for WA: **J.O'Connor** (p = L.Sim, s= R.Marchant)
Regional rep for NT: **J.Brimbox** (p = J.Davis, s = S.Schreiber)
Student rep: **P.Laceby** (p = R.McIntyre, s = R.Marchant)

It was also decided that a media liaison officer was no longer needed and this position which had been held by T.Doeg was abolished.

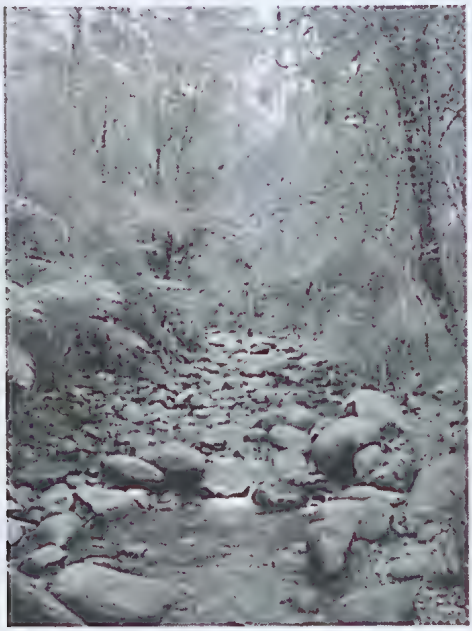
18. Student prizes: these were announced by D,Baldwin at the closing of the congress (see announcement later – ed.)

19. General Business:
(a) R.Thompson thanked R.McIntyre for organising the student workshop at the start of the congress.

(b) D.Baldwin thanked S.Bunn for his leadership as ASL president over the last two years. He also thanked the organising committee of this year's congress : M.Lund, J.Davis, T.Rose, B.Sommer, T.Storer, J.Chambers, L.Sim, R.McIntyre, J.O'Connor and S.Schreiber.
(c) J.Davis thanked C.Braund and J.Krause for their work behind the scenes at the congress.

These expressions of thanks were enthusiastically endorsed by members.

Meeting closed at 5.20pm



ASL Medal Winner: Dr Margaret Brock

Margaret Brock is an excellent research scientist, educator and mentor who has significantly advanced limnological knowledge and the management of aquatic ecosystems in Australia. She has consistently demonstrated excellence in research relating to the ecology, conservation and management of aquatic ecosystems through studies of wetland plants and processes at population, community and landscape levels. Her main focus has been on the response of aquatic plants to changes in water regime and increases in salinity, and she is recognised as an authority in this field. Her limnological studies have involved plant population biology, reproductive biology, seed bank dynamics and dispersal ecology. Throughout her career Margaret has worked on a diverse range of aquatic ecosystems including salt lakes, salt marshes and freshwater wetlands and collaborated with aquatic ecologists in France, South Africa and the United States.

Evidence of Margaret's research productivity is demonstrated by the publication of two books, 14 book chapters, 41+ peer-reviewed papers and. 46+ technical papers and reports (listed in more detail in the attached CV). Her proven success in obtaining federal research grants (Land and Water Australia, Environment Australia and ARC) is a tangible indicator of the quality of her research.

Margaret's role as the Program Leader in the Conservation Ecology Program in the CRC for Freshwater Ecology from 2002 to 200 provides evidence of her ability to provide leadership in research. In addition to her ability to lead, she is also a keen collaborator, working productively with Australian and international scientists. Her expertise, knowledge and commitment to wetland issues has also resulted in a high demand for her services in an advisory role. She has been a valuable member of a number of committees, including the WWF Scientific Advisory Committee, the NSW Threatened Species Scientific Committee and the federal Endangered Species Advisory Committee. She was President of the ASL in 1994-95 and has taken an active role in encouraging her students to attend ASL conferences.

Marg is an approachable and inspiring person, who takes the time to mentor young limnologists. Her influence on limnological learning has occurred through both formal and informal channels. She has played a significant role in the advancement and dissemination of limnological knowledge through her joint authorship (with Andrew Boulton) of the textbook: Australian Freshwater Ecology. This publication is the foremost textbook on aquatic ecology in Australia. It is the recommended text for courses in aquatic ecology at a number of Australian universities. The very readable style, and comprehensive treatment of Australian inland waters, has ensured that Australian students have ready access to detailed information about Australian aquatic ecosystems. Despite its Australian focus it has international recognition, with one reviewer citing "in my opinion (this is) the best book yet written on freshwater ecology".

As an academic who has taught at three universities: Adelaide University; Murdoch University; and the University of New England, Margaret has played an important role in teaching undergraduate students and supervising postgraduate students in Australian limnology for more than 30 years. Her recent postgraduates include: John Porter, Steve Mackay, Samantha Caporn, Sandra Grinter, Annabel Douglas-Hill and Janet Smith.

The interpretation of her research for use in natural resource management has been a major focus of Margaret's work. She has promoted the protection, conservation and management of Australia's wetlands and aquatic flora through her membership of national and state organisations such as WWF, Wetland Care Australia, the federal Endangered Species Advisory committee and many others. Margaret is one of the few Australian scientists who has moved from an academic sphere to a more 'hands on' position in natural resource management. Margaret achieved this by concurrently holding positions at the University of New England and the NSW Department of Natural Resources over the period 1999 to 2006. Margaret's ability to successfully move into an active role with a state agency, while retaining her academic ties exemplifies her enthusiasm to translate theory in practice and to ensure that scientific results are taken up by the wider management community.

Although Margaret retired from full time university and government employment in mid-2006, she maintains an active and ongoing commitment to limnological research and management and holds an honorary research position at the University of Tasmania.

ASL Young Achiever Award: Dr Darren Ryder

Darren was awarded his PhD in 2001 for his work on organic matter dynamics in wetlands of south-western Australia which was an excellent example of rigorous science underpinning a critical management question associated with managing the effects of fire on peatlands in WA. His work demonstrated the severe impact of burning on many decades of organic matter deposition and breakdown, promoting the importance of suitable m anagement practices to control fire and drying out of wetlands.

Linking science with management has been a theme of Darren's research. After completing his PhD in 2001, Darren obtained an ARC Postdoctoral Fellowship to undertake research on the role of river regulation on biofilms on wood. He has also been successful in the highly-competitive ARC Linkage grants scheme that specifically targets projects designed to improve interactions with industry partners to solve environmental and other problems. This has included a large linkage project assessing the success of rehabilitation of a degraded 10-km reach of the Hunter River, NSW.

In 2003 Darren took up a position as a Lecturer at the University of New England and has since been promoted to Senior Lecturer based on his academic and teaching achievements. His current research projects have substantial applied benefits and span risk-assessments of pipeline breaches through to rehabilitation strategies for derelict coal mines. His main focus, however, continues to be on environmental flows and ecosystem processes, for which he has received substantial professional recognition and funding support.

As a teacher Darren is extremely popular, and consistently receives excellent reviews from students. He has a rare skill in combining a dry wit with strong technical knowledge and is able to articulate complex limnological issues to a broad audience.

In summary, Darren has made valuable contributions to Australian limnology through his research on biofilms, river flows and ecosystem processes, his skills in teaching, communication and extension, and the substantial applied benefits of his work to river management. Darren is a worthy winner of the Early Career Excellence Award for 2008.

ASL Student Prize Winners

PhD/Masters prize: **Abigail Goodman**

Honourable mentions:
Katrina Lansdown
Catherine Leigh
Alisha Steward
Ben Stewart-Koster

Honours prize: **Robin Paice**

Poster prize: **Brett Downey**

CSIRO Marine and Freshwater Research prize: **Steve Wickson** (presented by A.Boulton, editor MFR)

Member's Musings

Open letter

I've been thinking about the discussion during the ASL AGM regarding the role of professional conference organizers and the style of ASL conferences.

Whilst not disputing that organizing an ASL conference is a lot of work and that using a professional company will greatly ease the demands on ASL personnel, I've come to the conclusion that this is not the best wayfor ASL to proceed (IMHO!).

Without dwelling on the Mandurah conference too long, I felt there were aspects that really were not in the best interests of the society and in particular the students. The conference dinner was disappointing. I believe that one of the key aspects of the dinner is to enable informal interactions between the students and the more senior members of the society. The venue and timing of departure meant this simply did not happen this year (it was just getting started as the plug was pulled).

My solution is to encourage (perhaps with small financial inducement - although this is not essential) the post-grad students to organize as much of the conference as possible. This would certainly involve the social program, including the dinner, and prob the 'tour program' as well. Students may also organize the actual conference program. Professional organizers could look after the registration aspects (and any matters that students can't/don't want to do).

The benefits are that the students feel a real sense of ownership of the conference (and therefore I believe are more likely to stay involved in the society) and they pick up some very useful organizational skills. Yes, it will take time out of their studies, but as a supervisor, I'm happy that this occurs.

I also think that the conference program will be a little more down-to-earth and probably more enjoyable for everyone too.

regards,

Mike Grace

REPORTS FROM THE TRENCHES

CANCELLED DUE TO LACK OF SUBMISSIONS
Deadline for next edition 15th December

MONASH FRESHWATER ECOLOGY RESEARCH GROUP, SCHOOL OF BIOLOGICAL SCIENCES

We are extremely excited at Monash [illegible] **Jenny Davis** and **Dr Jill Lancaster** will be joining [illegible] the continuing active presence of Sam Lake, and [illegible] area in coming months, it will be great to see what [illegible].

It seems to be the [illegible] elbourne's grey clag settles in around the lab. To escape [illegible] **mpson** and **Amber Clarke** attended the NABS meeting [illegible] ed urban streams symposium) in Salt Lake City. Amber [illegible] eams (with Ralph Mac Nally, Sam Lake and Nick Bond [illegible] and fitted well with an emerging interest in those smaller [illegible] e may uncharitably call 'drains'). **Beth Wallis** (Sam Lake) is [illegible] of writing up her thesis, as is **Karen Cooper** (Sam Lake, Ralph Mac [illegible] Gerry Quinn), working on her ISC study. **Susie Ho** (Nick Bond and Ross T[illegible]on) has been in the midst of picking samples and SIA processing of her food webs from the Ovens floodplain pools where she has been finding interesting interactions between carp gudgeon and Gambusia. Also wielding the SIA grinder has been Honours student **Darren Gilling** (Ross Thompson and Paul Reich) who has been investigating the effects of riparian revegetation on yabbies. All of this of course fits rather nicely within **Paul Reich** and **Sam Lake**'s ongoing MDBC-funded work on the effects of riparian revege on lowland streams, work that has now been joined by soil ecologist **Tim Cavagnaro**, and which has been assisted as ever by the ongoing work of **Matt Johnson** and **Thomas Daniel** (ie the people who do the ACTUAL work). Working in the same system PhD student **Mardiana Ali** (Ross Thompson and Mike Grace) is ready to commence another round of sampling in her work on the effects of *Typha* on nutrient dynamics and food web structure. Urban systems are also in the firing line with **Sam Imberger** (Ross Thompson and Mike Grace) continuing her work on functional indicators in urban streams, with Honours student **Erinn Richmond** (Ross Thompson and Mike Grace) working in many of the same sites. Downstream effects of urbanization on streams have been in Ross' thoughts lately, with much media attention aimed at his Honours student **Alissa Monks**' findings of mercury contamination in dolphins in Port Phillip Bay.

Ross recently visited China with **Mike Grace**, **Perran Cook** and **John Beardall**, and found similar ecotoxicological issues very much on the radar. On a less poisonous note **John Morringiello** (Nick Bond, Dave Crook and Bob Wong) is making some significant progress on his study of the life history traits of carp gudgeon, with bath tubs of the little beasties a major feature of Monash's new aquatic research facility. Major projects continue to proceed apace, with **Nick Bond's** work for eWater keeping him busy (with only a little bit of groaning about the work that the end of the financial year brings. **Elisa Rawlings** has rejoined us from maternity leave and with **Kay Morris** is starting to get some data on our wetlands restoration project. **Damien McMaster** together with Paul, Sam and Nick continue to work on the Broken-Boosey system.

Ross Thompson

ASL Newsletter
http://www.asl.org.au/

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